

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) A system for computer-aided intravenous delivery of ~~anesthetics and/or other drugs~~ a drug to a patient during a whole duration of an anesthetic procedure on the patient, the system comprising: ~~and which comprises:~~

a knowledge base that stores a set of written procedures to steer intravenous delivery of drugs, the written procedures adapted to types of surgical actions, physical conditions of patients, types of drugs, tools used to administer the drugs, and theoretical models of the drugs, the set of written procedures including at least a first procedure and a second procedure;

a sensor coupled to the patient, the sensor generating a signal that reflects a health condition or status of the patient;

an Infusion Session Manager that steers delivery of the drug, the Infusion Session Manager comprising:

an Infusion Controller arranged ~~for delivering~~ to deliver an amount of the drug drug(s) to [[a]] the patient;

a Communication Controller connected with infusion pumps and[[/or]] monitors;

a DataLogger controller that receives the signal from the sensor;

a Graphical User Interface [[to]] that displays different views of the system and [[to]] that accepts user input;

a first interface [[to]] that links the Infusion Controller to one of the views displayed by ~~said~~ the Graphical User Interface;

a Session Controller ~~arranged to carry out the modeling of anesthesia procedures and arranged to~~ that runs the [[a]] first procedure,

the Session Controller ~~and to~~ dynamically adapting ~~said~~ the first procedure based on the signal from the sensor or observation from a user, [[and/]]or

the Session Controller selecting and running the [[a]] second procedure based upon ~~one or more of said sensors' output~~ the signal from the sensor [[and/]]or the observation from a physician the user;

a second interface linking ~~said~~ the Session Controller to ~~said~~ the views displayed by ~~said~~ the Graphical User Interface; and

a third interface that links the DataLogger Controller to the views displayed by the Graphical User Interface.

~~a Processor or Infusion Session Manager integrating the Graphic User Interface, the Infusion Controller, the Communication Controller and the Session Controller and arranged for steering drug delivery;~~

~~wherein the system also contains a set of configurable written procedures to steer intravenous anesthetic drug delivery and/or other drug delivery, whereby said the procedures are adapted to the type of surgical action and/or therapy, adapted to the patient's physical condition, and adapted to the type of drugs, tools and theoretical models used.~~

2. (Canceled).

3. (Currently Amended) The system according to claim 1, further comprising:

an Archiving Manager which is in contact with the Infusion Session Manager, the Archiving Manager storing data needed to restart or recover actions after a power cut, a technical failure, breakdown, or decoupling; and

a program that is under the controls of the same program as the Infusion Session Manager and the Archiving Manager.

4. (Currently Amended) The system according to claim ~~[[1]]~~ 3, wherein the Archiving Manager and the Infusion Session Manager ~~may be~~ are independently transportable units.

5. (Currently Amended) The system according to claim 1, wherein ~~[[the]]~~ a person ~~in charge or the user may sets~~ [[the]] a level of desired assistance via ~~[[a]]~~ the graphical user interface.

6. (Currently Amended) The system according to claim 1, wherein only an expert user is allowed to ~~edit and/or~~ make permanent changes to the written procedures.

7. (Currently Amended) The system according to claim 1, wherein ~~the trigger to launch or change~~ a running procedure in the set of written procedures is launched or changed in response to ~~comes from~~ an internal state ~~[[and/]]or [[from]]~~ in response to an externally received command, ~~or request.~~
8. (Currently Amended) The system according to claim 1, wherein ~~[[the]]~~ at least one of the ~~written~~ procedures contains tasks ~~[[and/]]or~~ commands per major event, phase or step in ~~[[said]]~~ a surgery, and/or therapy.
9. (Currently Amended) The system according to claim 1, wherein the Infusion Controller ~~is arranged for administering~~ administers at least one intravenous drug selected from ~~[[the]]~~ a group consisting of a hypnotic~~[[s]]~~, an analgesic~~[[s]]~~, an amnesic~~[[s]]~~, a paralyzing agent~~[[s]]~~, a vasodepressor~~[[s]]~~ and a pressor substance~~[[s]]~~ and ~~any drug that is used in a~~ cancer therapy drug.
10. (Previously Presented) The system according to claim 9, wherein the hypnotic is propofol.
11. (Currently Amended) The system according to claim 10, wherein ~~[[the]]~~ a drug state model for propofol is that of Schnider.
12. (Currently Amended) The system according to claim 9, wherein the Infusion Controller administers the ~~drug used in~~ cancer therapy drug ~~is applied~~ in combination with antibiotics.
13. (Canceled).
14. (Currently Amended) The system according to claim 1, ~~which further contains wherein~~ the system ensures ~~constraints and/or safety measures that dictate~~ that a minimal amount of time has to pass between ~~[[to]]~~ two subsequent modifications to ~~[[a]]~~ one of the written procedures.
15. (Currently Amended) The system according to claim 1, wherein ~~[[the]]~~ a reliability of ~~[[a]]~~ the signal ~~or parameter~~ is determined by ~~[[the]]~~ a quality of ~~[[said]]~~ the signal, by ~~[[its]]~~ a

relation of the signal with other related signals or parameters, ~~[[and/]]~~or by ~~[[the]]~~ a deviation of the signal from a normal value ~~[[and/]]~~or from a safe range.

16. (Previously Presented) The system according to claim 9, wherein the analgesic is remifentanyl.

17. (Currently Amended) The system according to claim 9, wherein the ~~anesthetic~~ paralyzing agent is mivacurium.

18. (Currently Amended) The system of claim 16, wherein ~~[[the]]~~ a drug state model for remifentanyl is that of Minto.

19. (Currently Amended) A method for intravenous anesthesia which comprises ~~[[the]]~~ a step of obtaining an intravenous delivery of a drug to a patient by the system of claim 1.

20. (Currently Amended) A method for the treatment of cancer which comprises ~~[[the]]~~ a step of obtaining an intravenous delivery of a drug to a patient by the system of claim 1.

21. (New) The system of claim 1, wherein the Graphical User Interface shows the signal generated by the sensor, measured values of health parameters, or interpretations of the measured values of the values of the health parameters.

22. (New) The system of claim 1, wherein the signal generated by the sensor reflects values of health parameters selected from a group consisting of: continuous ECG, registration with analysis of a ST segment, invasive arterial pressure, continuous registration of right pressures via a Swan-Ganz catheter in a pulmonary artery, cardiac flux, venal oxygen saturation, transesophageal echocardiography, monitoring of insufflations pressures, capnography, arterial and venal oxygen saturation in blood sample or a mixture thereof.

23. (New) The system of claim 1, further comprising a patient health monitor of minimum or maximal limit values of physiological parameters recorded when reaching or exceeding a limit concentration of the drug.